IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Application No.: 10/733,795	§	Examiner: Ingberg, Todd D.
Filed: December 11, 2003	§	Group/Art Unit: 2193
Inventor(s):	§	Atty. Dkt. No: 5681-76400
Karen C. Roles, Stephen C. Evans	§	
and Steven J. Glover	§	
	§	
	§	
Title: COMPUTER SYSTEM	§	
MANAGEMENT	§	
	§	
	§	
	§	
	§	
	§	

APPEAL BRIEF

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

     Further to the Notice of Appeal mailed February 5, 2008, Appellants present this Appeal Brief. Appellants respectfully request that this appeal be considered by the Board of Patent Appeals and Interferences.

I.   REAL PARTY IN INTEREST

The subject application is owned by Sun Microsystems, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at 4150 Network Circle, Santa Clara, CA 95054, as evidenced by the assignment recorded at Reel 011391, Frame 0872.

II.   RELATED APPEALS AND INTERFERENCES

No other appeals or interferences are known which would directly affect or be directly affected by or have a bearing on the Board's decision in this appeal.

III.   STATUS OF CLAIMS

Claims 1-35 are pending and stand finally rejected under 35 U.S.C. § 103(a) and are the subject of this appeal. A copy of claims 1-35, as on appeal (incorporating all amendments), is included in the Appendix hereto.

IV.   STATUS OF AMENDMEMNTS

No amendment to the claims has been filed subsequent to the final rejection. The Appendix hereto reflects the current state of the claims including.

V.   SUMMARY OF CLAIMED SUBJECT MATTER

Independent claim 1 is directed to a management system for generation of a management object model for performing management of a computer system, e.g., for improving access to system management information in a computer system. *See, e.g.,* Abstract, Specification p.2:3-5, p. 61:4-5. The object model includes a structured hierarchy of objects representing components of a computer system for performing management of the computer system. *See, e.g.,* Abstract, Specification p.2:6-9, p. 61:5-6, p.36:22-30, Figure 11. The management system includes a processor, and a memory

coupled to the processor, where the memory includes program instructions configured to implement component modules that are operable to define mappings from instrumentation of the components to objects representing those components, and configuration modules operable to configure associations between the component modules for the generation of the management object model. *See, e.g.,* Abstract, Specification p.2:6-12, 21-28, p.7:6 – p.8:2, p.12:2-25, p.41:14-20, p.41:26 – p.42:31, Figure 1, Figure 5, Figure 13.

Independent claim 20 is directed to computer system that includes a management system for generation of a management object model, where the management object model includes a structured hierarchy of objects representing components of the computer system for performing management of the computer system. *See, e.g.,* Abstract, Specification p.2:3-9, p.36:22-30, p. 61:4-6, Figure 11. The management system includes a processor, and a memory coupled to the processor, where the memory includes program instructions configured to implement component modules that are operable to define mappings from instrumentation of the components to objects representing those components, and configuration modules operable to configure associations between the component modules for the generation of the management object model. *See, e.g.,* Abstract, Specification p.2:6-12, 21-28, p.7:6 – p.8:2, p.12:2-25, p.41:14-20, p.41:26 – p.42:31, Figure 1, Figure 5, Figure 13.

Independent claim 21 is directed to a method for generating a management object model, where the management object model includes a structured hierarchy of objects representing components of a computer system for performing management of the computer system. *See, e.g.,* Abstract, Specification p.2:3-9, p.36:22-30, p. 61:4-6, Figure 11. The method includes component modules defining mappings from instrumentation of the components to objects representing those components, and configuration modules configuring associations between the component modules for the generation of the management object model. *See, e.g.,* Abstract, Specification p.2:6-12, 21-28, p.41:14-20, p.41:26 – p.42:31, Figure 13.

Independent claim 35 is directed to a computer readable storage medium that includes a computer program for generation of a management object model, where the management object includes a structured hierarchy of objects representing components of a computer system for performing management of the computer system. *See, e.g.,* Abstract, Specification p.2:3-9, p.36:22-30, p. 61:4-6, Figure 11. The computer program includes computer-executable instructions, which, when loaded onto the computer system, which includes a processor and a memory, provide component modules operable to define mappings from instrumentation of the components to objects representing those components, and further provide configuration modules operable to configure associations between the component modules for the generation of the management object model. *See, e.g.,* Abstract, Specification p.2:6-12, 21-28, p.41:14-20, p.41:26 – p.42:31, Figure 13.

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

1. Claims 1-10, 12-17 and 19-30 stand rejected under 35 U.S.C. §103(a) as being anticipated by "OS/2 Client/Server Toolkit", Angelo R. Bobak, 1995 (hereinafter "OS/2") in view of HP OpenView as taught by Nathan Muller 1995 (hereinafter "OpenView").

2. Claims 11, 18 and 31-34 stand rejected under U.S.C. 103(a) as being unpatentable over Bobak ("OS/2") and OpenView in view of Lorenz et al. (U.S. Patent No. 6,405,366, hereinafter "Lorenz").

VII. ARGUMENT

First Ground of Rejection:

Claims 1-10, 12-17, 19-30, and 35 stand rejected under 35 U.S.C. §103(a) as being anticipated by "OS/2 Client/Server Toolkit", Angelo R. Bobak, 1995 (hereinafter "OS/2") in view of HP OpenView as taught by Nathan Muller 1995 (hereinafter "OpenView"). Appellant respectfully traverses this rejection for the following reasons. Different groups of claims are addressed under their respective subheadings.

Claims 1, 20, 21, 35

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **component modules operable to define mappings from instrumentation of the components to objects representing those components, and configuration modules operable to configure associations between the component modules for the generation of the management object model**, as recited by claim 1.

The Office Action states that "OS/2 teaches a management system for generation of a management object model including a structured hierarchy of objects representing components of a computer system for performing management of the computer system", citing OS/2, page 562, Figure 19.1

Appellant submits that page 562 of the OS/2 reference merely lists various global structures, variables, and definitions for a "coding exercise" for a "transaction monitor". The OS/2 reference at page 561 describes the "transaction monitor" as "allow[ing] you to interface with either the memory version of the database or any of the databases that our packages support." (OS/2 page 561). Thus the "transaction monitor" being constructed is merely a database access tool that can accept and execute database transactions or database requests. Figure 19.1 does not appear to be described in the OS/2 reference. However, Figure 19.1 appears to merely illustrate software classes used in creating this database access program, or possibly the "transaction monitor" portion of the program that "accepts [database] transaction requests from a client, executes them, and returns the results to the client process." (OS/2 page 561).

Appellant can find no teaching or suggestion regarding a "management object model" or "a structured hierarchy of objects representing components of a computer system" or a "management object model . . . for management of the computer system". For example, nowhere can Appellant find objects that represent components (e.g., physical resources or components in the system). The software classes shown in Figure 19.1 correspond to various software tasks, such as "event logger", "login monitor", "time keeper", "admin panel", and "kernel" that are used in the database access program being created.

With respect to the claim element "component modules operable to define mappings from instrumentation of the components to objects representing those components", the Office Action refers to OS/2 page 610 and Figure 22.1 (Chapter 22). This chapter of the OS/2 reference is also involved with creating software for the database access program begun in Chapter 19. Chapter 22 describes creation of "system configuration logic" and "keyboard logic". The "keyboard logic" is simply software which monitors the keyboard and allows the administrator to enter keystrokes that are interpreted and executed. The Office Action appears to rely on Figure 22.1. Again, Figure 22.1 shows a more detailed software class diagram of the database access program ("transaction monitor") that is being constructed in this exercise. In other words, Figure 22.1 merely shows the software classes used in constructing a database access program. As merely on example, Appellant cannot find any "objects representing those components" or any "component modules operable to define mappings from instrumentation of the components to objects representing those components". In short, this software class diagram for a database program is simply not relevant to the claimed subject matter.

With respect to the claim element "configuration modules operable to configure associations between the component modules for the generation of the management object model", the Office Action refers again to OS/2 page 562 Figure 19.1 and pages 610-619. The Office Action then states "OS/2 teaches the defining of system objects and being able to generate a management object model." Appellant respectfully submits that

this is incorrect. The cited reference in general teaches a student how to create a database transaction program in OS/2. Pages 610-619 appear to teach creation of a "configuration parameter tool" used to create "monitor configuration parameters", i.e., parameters to configure the database transaction program. Appellant submits that the cited reference is simply irrelevant to the present claims.

The Office Action states that "OS/2 does not explicitly teach the program instructions configured to implement" and appears to rely on OpenView to teach this aspect of the claim. Regardless, Appellant has reviewed the OpenView reference and submits that it does not teach or suggest the features lacking from the OS/2 reference as described above.

Anticipation requires the presence in a single prior art reference disclosure of each and every element of the claimed invention, arranged as in the claim. M.P.E.P 2131; *Lindemann Maschinenfabrik GmbH v. American Hoist & Derrick Co.*, 221 USPQ 481, 485 (Fed. Cir. 1984). The identical invention must be shown in as complete detail as is contained in the claims. *Richardson v. Suzuki Motor Co.*, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). (Emphasis added)

Appellant submits that OS/2 and OpenView, either separately or in combination, fail to teach or suggest the elements of claim 1. Specifically, OS/2 fails to teach, "a processor; and a memory coupled to the processor, wherein the memory comprises program instructions configured to implement: component modules operable to define mappings from instrumentation of the components to objects representing those components, and configuration modules operable to configure associations between the component modules for the generation of the management object model" as recited by claim 1.

In accordance, claim 1 is believed to patentably distinguish over OS/2.

Claims 2, 22

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein said component modules are operable to define mappings at respective different levels of abstraction**, as recited by claim 2.

As explained above with reference to claim 1, cited OS/2, p.562 lists various global variables, local variables, and definitions for a "transaction monitor" that allows a user to interface with a database, i.e., a database access tool. Nowhere does the cited text, nor OS/2 in general, disclose or describe component modules that define mappings from instrumentation of the components to objects representing those components at respective different levels of abstraction.

Cited Figure 19.1, which does not appear to be described in the OS/2 reference, illustrates software classes used in creating the "transaction monitor" database access program. Appellant can find no teaching or suggestion regarding component modules that define mappings from instrumentation of components to objects representing those components at all, much less where the component modules define the mappings *at respective different levels of abstraction*.

Examples of Appellant's component modules (with different levels of abstraction) are described in the Specification at p.2:15-19, where, for example, a component module defines a mapping for a single component property at a first level of abstraction, another component module defines a mapping for a set of component properties forming an object at a second level of abstraction, and a further component module defines a mapping for an assembly of associated objects at a third level of abstraction. As noted above, OS/2 fails to disclose objects that represent computer system components (e.g., physical resources or components in the system) at all, nor component modules that define mappings from instrumentation of the components to objects representing those components, nor, more specifically, that define the mappings *at respective different levels of abstraction*. Appellant notes that the software classes shown in Figure 19.1 correspond to various software tasks, such as "event logger", "login monitor", "time keeper", "admin panel", and "kernel" that are used in the database access program being created, and do not refer to computer system components, nor objects representing such components.

Thus, the cited art fails to teach or suggest this feature of claim 2, and so claim 2 is patentably distinct over the cited references.

Claims 3, 23,

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein a said component module is operable to define a mapping for a single component property at a first level of abstraction**, as recited by claim 3.

As discussed above, cited OS/2, p.562-563 (which includes Figure 19.1) lists various global variables, local variables, and definitions for a "transaction monitor" that allows a user to interface with, i.e., access, a database, and further illustrates software classes used in creating the "transaction monitor" database access program (Figure 19.1). Nowhere do the cited portions of OS/2, nor OS/2 in general, disclose or describe component modules that define mappings from instrumentation of the components to objects representing those components at respective different levels of abstraction, nor, more specifically, a component module that defines a mapping for a single component property at a first level of abstraction. Rather, the cited OS/2 portions disclose program global structures, variables, definitions, header files, and (Figure 19.1) software classes used to build the "transaction monitor" database access program, specifically, software classes corresponding to various software tasks, such as "event logger", "login monitor", "time keeper", "admin panel", and "kernel" that are used in the database access program. These classes, structures, variables, and definitions do not correspond to physical computer system components, nor do they define a mapping for a single computer system component property at a first level of abstraction.

Thus, the cited art fails to teach or suggest this feature of claim 3, and so claim 3 is patentably distinct over the cited references.

Claims 4, 24

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein a said component**

module is operable to define a mapping for a set of component properties forming an object at a second level of abstraction, as recited by claim 4.

As discussed above, cited OS/2, p.562 (which includes Figure 19.1) lists various global variables, local variables, and definitions for a "transaction monitor" that allows a user to interface with, i.e., access, a database, and further illustrates software classes used in creating the "transaction monitor" database access program (Figure 19.1). Nowhere do the cited portions of OS/2, nor OS/2 in general, disclose or describe component modules that define mappings from instrumentation of the components to objects representing those components at respective different levels of abstraction, nor, more specifically, a component module that defines a mapping for a set of component properties forming an object at a second level of abstraction. Rather, the cited OS/2 portion discloses program global structures, variables, definitions, header files, and (Figure 19.1) software classes used to build the database access program, specifically, software classes corresponding to various software tasks, such as "event logger", "login monitor", "time keeper", "admin panel", and "kernel" that are used in the database access program. These classes, structures, variables, and definitions do not correspond to physical computer system components, nor do they define a mapping for a set of component properties forming an object at a second level of abstraction.

Thus, the cited art fails to teach or suggest this feature of claim 4, and so claim 4 is patentably distinct over the cited references.

Claims 5, 25

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein a said component module is operable to define a mapping for an assembly of associated objects at a third level of abstraction**, as recited by claim 5.

As discussed above, cited OS/2, p.562 (which includes Figure 19.1) lists various global variables, local variables, and definitions for a "transaction monitor" that allows a user to interface with, i.e., access, a database, and further illustrates software classes used in creating the "transaction monitor" database access program (Figure 19.1). Nowhere do the cited portions of OS/2, nor OS/2 in general, disclose or describe component

modules that define mappings from instrumentation of the components to objects representing those components at respective different levels of abstraction, nor, more specifically, a component module that defines a mapping for an assembly of associated objects at a third level of abstraction. Rather, the cited OS/2 portion discloses program global structures, variables, definitions, header files, and (Figure 19.1) software classes used to build the "transaction monitor" database access program, specifically, software classes corresponding to various software tasks, such as "event logger", "login monitor", "time keeper", "admin panel", and "kernel" that are used in the database access program. These classes, structures, variables, and definitions do not correspond to physical computer system components, nor do they define a mapping for an assembly of associated objects at a third level of abstraction.

Thus, the cited art fails to teach or suggest this feature of claim 5, and so claim 5 is patentably distinct over the cited references.

Claims 6, 26

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein a said component module for a component defines a behavior of the object representing the component**, as recited by claim 6.

The Office Action asserts that this feature is inherent in the definition of "object", since "objects are made of attributes and the methods to perform operations on those attributes. methods [*sic*] are the behavior."

Appellant respectfully submits that, as explained above, Appellant's claimed component modules define mappings from instrumentation of the components to objects representing those components. Thus, an object represents a component (of a computer system), and the corresponding component module defines mapping from instrumentation of the component to the object.

This particular relationship is neither taught nor suggested by the (well-known) objects utilized in object oriented systems, nor by the methods of objects in an objected oriented system. Appellant respectfully submits that since the cited art fails to teach or suggest objects that represent components, the art also cannot teach or suggest a

component module that defines mapping from instrumentation of the component to such an object. Nor, more specifically, does the cited art disclose a component module that defines a behavior of the object representing the component.

Thus, the cited art fails to teach or suggest this feature of claim 6, and so claim 6 is patentably distinct over the cited references.

Claims 7, 27

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein a said configuration module is operable to configure a said component module dynamically at run time for a said component that is subject to dynamic changes in status and is further operable to monitor said component for a change in status**, as recited by claim 7.

The Office Action contends that the above-quoted feature of claim 7 is disclosed on pages 609 and 611-615, citing the configuration parameter tool (bottom of page 612). Appellant respectfully disagrees at least for the reasons cited above, since OS/2 (and openVIEW) does not disclose component modules that represent computer system components, nor configuration modules for configuring such component modules. Moreover, as noted above, OS/2 teaches "The configuration logic will come in the form of two utilities: One allows you to create the file containing the monitor configuration parameters; the other utility allows you to look at the parameters by loading the file." (OS/2, page 609). Again, these are utilities being created for a database transaction or access program. This cited portion of OS/2 has nothing to do with a system component or resource (physical component or resource) that is subject to dynamic changes in status, and dynamic configuration of a component module for such a physical component, as recited in the claim. Nor does OpenView disclose these features.

Accordingly, claim 7 is believed to patentably distinguish over the cited art.

Claims 8, 28

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein a said**

configuration module is operable to configure a said component module statically at run time for a said component having static properties for a given invocation of the computer system, as recited by claim 8.

The Office Action contends that the above-quoted feature of claim 8 is disclosed on pages 609 and 592, citing fixed properties such as the size of a message as defined to be 256 characters. Appellant respectfully disagrees at least for the reasons cited above, since OS/2 (and openVIEW) does not disclose component modules that represent computer system components, nor configuration modules for configuring such component modules. For example, a message is not a computer system component.

Moreover, per cited p.609, OS/2 teaches "The configuration logic will come in the form of two utilities: One allows you to create the file containing the monitor configuration parameters; the other utility allows you to look at the parameters by loading the file." Again, these are utilities being created for a database transaction or access program. This cited portion of OS/2 has nothing to do with a computer system component or resource (physical component or resource) that has static properties for a given invocation of the computer system, and static configuration of a component module for such a physical component at runtime, as recited in the claim.

Accordingly, claim 8 is believed to patentably distinguish over the cited art.

Claims 9, 29

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach program instructions implementing **wherein a said configuration module is operable to configure a said component module fixedly at run time for a said component having fixed properties for any invocation of the computer system**, as recited by claim 9.

The Office Action refers to the Examiner's arguments made with respect to claim 8, apparently asserting that pages 609 and 592 also disclose this feature of claim 9, citing fixed properties such as the size of a message as defined to be 256 characters. Appellant respectfully disagrees at least for the reasons cited above, since OS/2 (and openVIEW) does not disclose component modules that represent computer system components, nor

configuration modules for configuring such component modules. As noted above, a message is not a computer system component.

Moreover, per cited p.609, OS/2 teaches "The configuration logic will come in the form of two utilities: One allows you to create the file containing the monitor configuration parameters; the other utility allows you to look at the parameters by loading the file." Again, these are utilities being created for a database transaction or access program. This cited portion of OS/2 has nothing to do with a computer system component or resource (physical component or resource) that has fixed properties for a given invocation of the computer system, nor fixedly configuring a component module for such a physical component at runtime, as recited in the claim.

Accordingly, claim 9 is believed to patentably distinguish over the cited art.

Claims 10

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **a library of component modules**, as recited by claim 10.

As discussed above, cited OS/2, p.562 (which includes Figure 19.1) lists various global variables, local variables, and definitions for a "transaction monitor" that allows a user to interface with, i.e., access, a database, and further illustrates software classes used in creating the "transaction monitor" database access program (Figure 19.1).

Appellant respectfully submits that no mention of a component library is made, nor is a component library shown, on p.562. However, while OS/2 may have a library of software modules, this in no way teaches or suggests a library of component modules, where the component modules define mappings from instrumentation of computer system components to objects representing those components. Software modules are not computer system components, i.e., physical components or resources. As noted earlier, the classes, structures, variables, and definitions of p.562, and the software classes used in creating this database access program shown in Figure 19.1 do not correspond to physical computer system components, nor do they define mappings from instrumentation of computer system components to objects representing those components.

Thus, the cited art fails to teach or suggest this feature of claim 10, and so claim 10 is patentably distinct over the cited references.

Claims 12, 30

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein a said component module for a component identifies an instrumentation module defining a source of instrumentation for the component**, as recited by claim 12.

Cited OS/2 p.603 is directed to transaction objects and structures used to process transactions, specifically, structures used by transaction agents that execute database requests against IBM DB/2 databases, and has nothing to do with "instrumentation of components in the computer system". For example, the cited transRecords ("transaction records") is a union of structures that can be submitted to the monitor for transaction requests, e.g., carrierPacket, chargPacket, customerPacket, invoicePacket, packagePacket, and routePacket. None of the objects and structures is described as being a component module for a computer system component (physical resource or component of the computer system), nor an instrumentation module. More specifically, the cited transRecord is nowhere described as a component module for a component that identifies an instrumentation module defining a source of instrumentation for the component. In fact, nowhere are computer system components, or component modules, or instrumentation (or instrumentation modules) mentioned at all. Thus, the cited art does not, and cannot, disclose a component module that identifies an instrumentation module defining a source of instrumentation for the component.

Thus, the cited art fails to teach or suggest this feature of claim 12, and so claim 12 is patentably distinct over the cited references.

Claim 13

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein the instrumentation module exports an object-based representation of the instrumentation data via an instrumentation interface**, as recited by claim 13.

Cited OS/2 p.627 summarizes the coding exercise "transaction monitor" description and toolkit used to build it, and mentions a database layer that simulates a database in memory for use by readers who do not have access to LAN-based platforms such as Gupta or Microsoft/Sybase. Figure 22.2 is a portion of a sample screenshot of the "Transaction Monitor in Action", showing various "Expert System" steps, presumably performed by the transaction monitor, but not explained in the text.

Nowhere do the citations mention or even hint at an instrumentation module, nor, more specifically, an instrumentation module that exports an object-based representation of instrumentation data via an instrumentation interface. In fact, the citations make no mention of instrumentation, an instrumentation module, or instrumentation data at all.

Thus, the cited art fails to teach or suggest this feature of claim 13, and so claim 13 is patentably distinct over the cited references.

Claim 14

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein the instrumentation module comprises a general part and a specific part, the general part being operable to communicate with the specific part via a private interface to obtain instrumentation data, and the specific part being configured to interface with instrumentation for the component to obtain said instrumentation data**, as recited by claim 14.

Cited OS/2 p.618-619 discloses various keyboard agent functions for handling user input key commands. For example, pop-up panels can be created for the database program to display an event log. This has nothing to do with instrumentation or user interfaces for hardware components, and certainly does not teach the specifics of claim 14. Nor does this text (nor OS/2 in general) disclose an instrumentation module or instrumentation data from a computer system component, and more particularly, an instrumentation module that includes a general part and a specific part, where the general part communicates with the specific part via a private interface to obtain instrumentation data, and the specific part interfaces with instrumentation for the component to obtain the

instrumentation data. Such instrumentation of a computer system component is not discussed in the cited references.

Accordingly, claim 14 is believed to patentably distinguish over the cited references.

Claim 15

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein the general part and the specific part are local to each other**, as recited by claim 15.

Cited OS/2 p.612 discloses portions of a configuration parameter tool that facilitates instantiation of a configuration file/structure that includes initialization of parameters such as pipe name, pipe sizes, and transaction pipe sizes, as well as locality information regarding the server. P.613 continues the description, where the user is prompted for parameter values, the structure is populated with values received from the user, and a corresponding record is written to the newly created configuration file. Appellant notes that the locality information (REMOTE or LOCAL) refers to whether the server location is remote or local with respect to the client process, *not* whether two parts of an instrumentation module (general and specific parts) are local to each other.

This text does not describe and is not germane to instrumentation for a hardware component of a computer system. Nor does this text (nor OS/2 in general) disclose an instrumentation module or instrumentation data from a computer system component, and more particularly, an instrumentation module that includes a general part and a specific part, where the general part communicates with the specific part via a private interface to obtain instrumentation data, and the specific part interfaces with instrumentation for the component to obtain the instrumentation data, where the general part and the specific part are local or remote to each other.

Thus, the cited art fails to teach or suggest this feature of claim 15, and so claim 15 is patentably distinct over the cited references.

Claim 16

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein the specific part is remote from the general part, the general part being operable to communicate with the remote part via a remote access mechanism**, as recited by claim 16.

In the rejection of claim 16, the Examiner refers to the arguments made with respect to claim 15. However, as noted above, cited OS/2 p.612 discloses portions of a configuration parameter tool that facilitates instantiation of a configuration file/structure that includes initialization of parameters such as pipe name, pipe sizes, and transaction pipe sizes, as well as locality information regarding the server. As also noted above, the locality information (REMOTE or LOCAL) refers to whether the server location is remote or local with respect to the client process, *not* whether two parts of an instrumentation module (general and specific parts) are remote or local to each other.

This text does not describe and is not germane to instrumentation for a hardware component of a computer system, and fails to disclose an instrumentation module or instrumentation data from a computer system component, and more particularly, an instrumentation module that includes a general part and a specific part, where the general part communicates with the specific part via a private interface to obtain instrumentation data, and the specific part interfaces with instrumentation for the component to obtain the instrumentation data, where the specific part is remote from the general part, and where the general part communicates with the remote part via a remote access mechanism.

Thus, the cited art fails to teach or suggest this feature of claim 16, and so claim 16 is patentably distinct over the cited references.

Claim 17

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **comprising a library of instrumentation modules**, as recited by claim 17.

Cited OS/2 p.610 and Figure 22.1 disclose a class diagram for the code exercise "transaction monitor" discussed above, including software classes such as the transaction monitor itself, request monitor, login monitor, event logger, time keeper, admin panel, and so forth. The citations also describe session configuration parameters, such as the

name of the login pipe with its input and output size, location of the monitor, e.g., REMOTE or LOCAL, with respect to the client process.

Nowhere does the cited text (nor OS/2 in general) disclose instrumentation modules, nor a library of such modules.

Accordingly, claim 17 is believed to patentably distinguish over the cited references.

Claim 19

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein the management system forms a management agent for remote management of a computer system**, as recited by claim 19.

Cited OS/2 p.603-604 discloses a modified transaction object referred to as transaction records, which is a union of various structures needed to support transaction agents that execute requests against the database. Applicant respectfully submits that the transaction monitor cited by the Examiner is for performing database operations, e.g., database requests, and is not germane to remote management of a computer system.

Accordingly, claim 19 is believed to patentably distinguish over the cited references.

Second Ground of Rejection:

Claims 11, 18, and 31-34 stand rejected under U.S.C. 103(a) as being unpatentable over Bobak ("OS/2") and OpenView in view of Lorenz et al. (U.S. Patent No. 6,405,366, hereinafter "Lorenz"). Appellant respectfully traverses this rejection for the following reasons. Different groups of claims are addressed under their respective subheadings.

Claim 11

Appellant respectfully submits that OS/2, OpenView, and Lorenz, taken singly or in combination, fail to teach a management system that includes **wherein a said component module comprises a plug-in module**, as recited by claim 11.

Cited OS/2 p.603-604 discloses a modified transaction object referred to as transaction records, which is a union of various data structures needed to support transaction agents that execute requests against the database. Applicant respectfully submits that the transaction monitor cited by the Examiner is for performing database operations, e.g., database transactions/requests, and is not germane to remote management of a computer system. Moreover, the cited plugins of Lorenz are specifically for accessing formatted data of respective data types, e.g., binary, symbolic, etc., and have nothing whatsoever to do with a component module that defines mappings from instrumentation of computer system components to objects representing those componentst. Thus, even in combination with the plugins of Lorenz, the combination of OS/2, OpenView, and Lorenz fail to teach or suggest the features of claim 11.

Accordingly, claim 11 is believed to patentably distinguish over the cited references.

Claim 18

Appellant respectfully submits that OS/2, OpenView, and Lorenz, taken singly or in combination, fail to teach a management system that includes **wherein a said instrumentation module comprises a plug-in module**, as recited by claim 18.

Cited OS/2 p.603-604 discloses a modified transaction object referred to as transaction records, which is a union of various data structures needed to support transaction agents that execute requests against the database. Applicant respectfully submits that the transaction monitor cited by the Examiner is for performing database operations, e.g., database requests, and is not germane to remote management of a computer system. Moreover, the cited plugins of Lorenz are specifically for accessing formatted data of respective data types, e.g., binary, symbolic, etc., and have nothing whatsoever to do with an instrumentation module that identifies an instrumentation source for a computer system component. Thus, even in combination with the plugins of

Lorenz, the combination of OS/2, OpenView, and Lorenz fail to teach or suggest the features of claim 18.

Accordingly, claim 18 is believed to patentably distinguish over the cited references.

Claim 31

Appellant respectfully submits that OS/2, OpenView, and Lorenz, taken singly or in combination, fail to teach **the instrumentation module exporting an object-based representation of the instrumentation data via an instrumentation interface**, as recited by claim 31.

Cited OS/2 p.627 summarizes the coding exercise "transaction monitor" description and toolkit used to build it, and mentions a database layer that simulates a database in memory for use by readers who do not have access to LAN-based platforms such as Gupta or Microsoft/Sybase. Figure 22.2 is a portion of a sample screenshot of the "Transaction Monitor in Action", showing various "Expert System" steps, presumably performed or reported by the transaction monitor, but not explained in the text.

Nowhere do the citations mention or even hint at an instrumentation module, nor, more specifically, and instrumentation module exporting an object-based representation of instrumentation data (of a computer system component) via an instrumentation interface. In fact, the citations make no mention of instrumentation, an instrumentation module, or instrumentation data at all.

Thus, the cited art fails to teach or suggest this feature of claim 31, and so claim 31 is patentably distinct over the cited references.

Claim 32

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach **a general part of the instrumentation module communicating with a specific part of the instrumentation module via a private interface to obtain instrumentation data, and the specific part interfacing with**

instrumentation for the component to obtain said instrumentation data, as recited by claim 32.

Cited OS/2 p.618-619 discloses various keyboard agent functions for handling user input key commands. For example, pop-up panels can be created for the database program to display an event log. This has nothing to do with instrumentation or user interfaces for computer system components (hardware), and does not teach or suggest the specifics of claim 32. Nor does this text (nor OS/2 in general) disclose an instrumentation module or instrumentation data from a computer system component, and more particularly, an instrumentation module that includes a general part and a specific part, where the general part communicates with the specific part via a private interface to obtain instrumentation data, and the specific part interfaces with instrumentation for the component to obtain the instrumentation data. Such instrumentation of a computer system component is not discussed in the cited references.

Accordingly, claim 32 is believed to patentably distinguish over the cited references.

Claim 33

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein the general part and the specific part are local to each other**, as recited by claim 33.

Cited OS/2 p.612 discloses portions of a configuration parameter tool that facilitates instantiation of a configuration file/structure that includes initialization of parameters such as pipe name, pipe sizes, and transaction pipe sizes, as well as locality information regarding the server. P.613 continues the description, where the user is prompted for parameter values, the structure is populated with values received from the user, and a corresponding record is written to the newly created configuration file. Appellant notes that the locality information (REMOTE or LOCAL) refers to whether the server location is remote or local to the client process, *not* whether two parts of an instrumentation module (general and specific parts) are local to each other.

This text does not describe and is not germane to instrumentation for a hardware component of a computer system. Nor does this text (nor OS/2 in general) disclose an

instrumentation module or instrumentation data from a computer system component, and more particularly, an instrumentation module that includes a general part and a specific part, where the general part communicates with the specific part via a private interface to obtain instrumentation data, and the specific part interfaces with instrumentation for the component to obtain the instrumentation data, *where the general part and the specific part are local or remote to each other.*

Thus, the cited art fails to teach or suggest this feature of claim 33, and so claim 33 is patentably distinct over the cited references.

Claim 34

Appellant respectfully submits that OS/2 and OpenView, either singly or in combination, fail to teach a management system that includes **wherein the specific part is remote from the general part, the general part being operable to communicate with the remote part via a remote access mechanism**, as recited by claim 34.

In the rejection of claim 34, the Examiner refers to the arguments made with respect to claim 16, which refer to the arguments made with respect to claim 15. However, as noted above, cited OS/2 p.612 discloses portions of a configuration parameter tool that facilitates instantiation of a configuration file/structure that includes initialization of parameters such as pipe name, pipe sizes, and transaction pipe sizes, as well as locality information regarding the server. As also noted above, the locality information (REMOTE or LOCAL) refers to whether the server location is remote or local with respect to the client process, *not* whether two parts of an instrumentation module (general and specific parts) are remote or local to each other.

This text does not describe and is not germane to instrumentation for a hardware component of a computer system, and fails to disclose an instrumentation module or instrumentation data from a computer system component, and more particularly, an instrumentation module that includes a general part and a specific part, where the general part communicates with the specific part via a private interface to obtain instrumentation data, and the specific part interfaces with instrumentation for the component to obtain the instrumentation data, *where the specific part is remote from the general part, and where the general part communicates with the remote part via a remote access mechanism.*

Thus, the cited art fails to teach or suggest this feature of claim 34, and so claim 34 is patentably distinct over the cited references.

In light of the above, removal of the section 103 rejection of claims 1-35 is respectfully requested.

VIII. CONCLUSION

For the foregoing reasons, it is submitted that the Examiner's rejection of claims 1-35 was erroneous, and reversal of Examiner's decision is respectfully requested.

The Commissioner is authorized to charge the appeal brief fee of $510.00 and any other fees that may be due to Meyertons, Hood, Kivlin, Kowert, & Goetzel, P.C. Deposit Account No. 501505/5681-76400/JCH.   This Appeal Brief is submitted with a return receipt postcard.

Respectfully submitted,

/Jeffrey C. Hood/
Jeffrey C. Hood, Reg. #35198
Attorney for Appellant(s)

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P.O. Box 398
Austin, TX 78767-0398
(512) 853-8800

Date: February 20, 2008 JCH/MSW

IX.   CLAIMS APPENDIX

The claims on appeal are as follows.

1.   A management system for generation of a management object model including a structured hierarchy of objects representing components of a computer system for performing management of the computer system, the management system comprising:

a processor; and

a memory coupled to the processor, wherein the memory comprises program instructions configured to implement:

component modules operable to define mappings from instrumentation of the components to objects representing those components, and

configuration modules operable to configure associations between the component modules for the generation of the management object model.

2.   The management system of Claim 1, wherein said_component modules are operable to define mappings at respective different levels of abstraction.

3.   The management system of Claim 2, wherein a said component module is operable to define a mapping for a single component property at a first level of abstraction.

4.   The management system of Claim 2, wherein a said component module is operable to define a mapping for a set of component properties forming an object at a second level of abstraction.

5.   The management system of Claim 2, wherein a said component module is operable to define a mapping for an assembly of associated objects at a third level of abstraction.

6.   The management system of Claim 1, wherein a said component module for a component defines a behavior of the object representing the component.

7.   The management system of Claim 1, wherein a said configuration module is operable to configure a said component module dynamically at run time for a said component that is subject to dynamic changes in status and is further operable to monitor said component for a change in status.

8.   The management system of Claim 1, wherein a said configuration module is operable to configure a said component module statically at run time for a said component having static properties for a given invocation of the computer system.

9.   The management system of Claim 1, wherein a said configuration module is operable to configure a said component module fixedly at run time for a said component having fixed properties for any invocation of the computer system.

10.   The management system of Claim 1, comprising a library of component modules.

11.   The management system of Claim 1, wherein a said component module comprises a plug-in module.

12.   The management system of Claim 1, wherein a said component module for a component identifies an instrumentation module defining a source of instrumentation for the component.

13.   The management system of Claim 12, wherein the instrumentation module exports an object-based representation of the instrumentation data via an instrumentation interface.

14.   he management system of Claim 13, wherein the instrumentation module comprises a general part and a specific part, the general part being operable to

communicate with the specific part via a private interface to obtain instrumentation data, and the specific part being configured to interface with instrumentation for the component to obtain said instrumentation data.

15. The management system of Claim 14, wherein the general part and the specific part are local to each other.

16. The management system of Claim 14, wherein the specific part is remote from the general part, the general part being operable to communicate with the remote part via a remote access mechanism.

17. The management system of Claim 12, comprising a library of instrumentation modules.

18. The management system of Claim 12, wherein a said instrumentation module comprises a plug-in module.

19. The management system of Claim 1, wherein the management system forms a management agent for remote management of a computer system.

20. A computer system comprising a management system for generation of a management object model including a structured hierarchy of objects representing components of the computer system for performing management of the computer system, the management system comprising:
a processor; and
a memory coupled to the processor, wherein the memory comprises program instructions configured to implement:
component modules operable to define mappings from instrumentation of the components to objects representing those components, and
configuration modules operable to configure associations between the component modules for the generation of the management object model.

21.   A method for generating a management object model including a structured hierarchy of objects representing components of a computer system for performing management of the computer system, the method comprising:

component modules defining mappings from instrumentation of the components to objects representing those components, and

configuration modules configuring associations between the component modules for the generation of the management object model.

22.   The method of Claim 21, comprising component modules defining mappings at respective different levels of abstraction.

23.   The method of Claim 22, comprising a said component module defining a mapping for a single component property at a first level of abstraction.

24.   The method of Claim 22, comprising a said component module defining a mapping for a set of component properties forming an object at a second level of abstraction.

25.   The method of Claim 22, comprising a said component module defining a mapping for an assembly of associated objects at a third level of abstraction.

26.   The method of Claim 21, comprising a said component module for a component defining a behavior of the object representing the component.

27.   The method of Claim 21, comprising a said configuration module configuring a said component module dynamically at run time for a said component that is subject to dynamic changes in status and monitoring said component for a change in status.

28.   The method of Claim 21, comprising a said configuration module configuring a said component module statically at run time for a said component having static properties for a given invocation of the computer system.

29.   The method of Claim 21, comprising a said configuration module configuring a said component module fixedly at run time for a said component having fixed properties for any invocation of the computer system.

30.   The method of Claim 21, wherein a said component module for a component identifies an instrumentation module defining a source of instrumentation for the component.

31.   The method of Claim 30, comprising the instrumentation module exporting an object-based representation of the instrumentation data via an instrumentation interface.

32.   The method of Claim 31, comprising a general part of the instrumentation module communicating with a specific part of the instrumentation module via a private interface to obtain instrumentation data, and the specific part interfacing with instrumentation for the component to obtain said instrumentation data.

33.   The method of Claim 32, wherein the general part and the specific part are local to each other.

34.   The method of Claim 32, wherein the specific part is remote from the general part, the general part being operable to communicate with the remote part via a remote access mechanism.

35.   A computer readable storage medium comprising a computer program for generation of a management object model including a structured hierarchy of objects representing components of a computer system for performing management of the computer system, the computer program including computer-executable instructions,

which, when loaded onto the computer system comprising a processor and a memory, provide component modules operable to:

define mappings from instrumentation of the components to objects representing those components, and

wherein the computer-executable instructions further provide configuration modules operable to configure associations between the component modules for the generation of the management object model.

X.   <u>EVIDENCE APPENDIX</u>

No evidence submitted under 37 CFR §§ 1.130, 1.131 or 1.132 or otherwise entered by the Examiner is relied upon in this appeal.

XI. RELATED PROCEEDINGS APPENDIX

There are no related proceedings.